



Appendix E

RF Test Data for 5.3GWIFI(Conducted Measurement)

Product Name: Smart Diagnostic System

Test Model: P807

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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E.1 -26dB Bandwidth

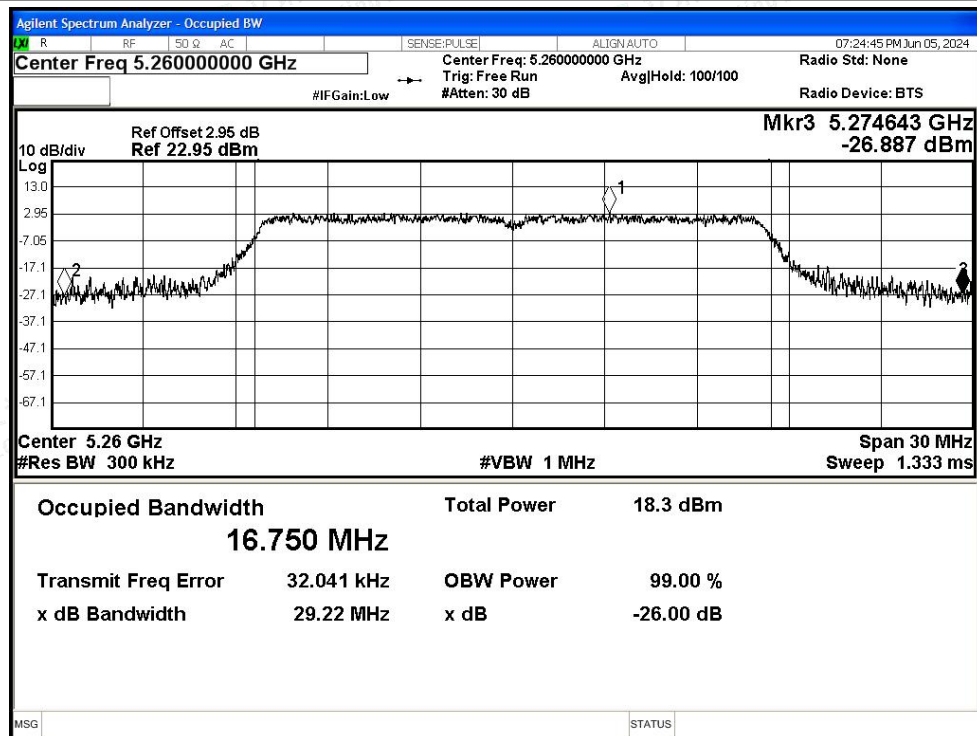
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	29.221	---	Pass
NVNT	a	5300	Ant1	28.567	---	Pass
NVNT	a	5320	Ant1	28.377	---	Pass
NVNT	n20	5260	Ant1	28.794	---	Pass
NVNT	n20	5300	Ant1	26.269	---	Pass
NVNT	n20	5320	Ant1	28.225	---	Pass
NVNT	n40	5270	Ant1	39.25	---	Pass
NVNT	n40	5310	Ant1	41.378	---	Pass
NVNT	ac20	5260	Ant1	27.045	---	Pass
NVNT	ac20	5300	Ant1	29.074	---	Pass
NVNT	ac20	5320	Ant1	28.33	---	Pass
NVNT	ac40	5270	Ant1	52.343	---	Pass
NVNT	ac40	5310	Ant1	40.433	---	Pass
NVNT	ac80	5290	Ant1	80.104	---	Pass



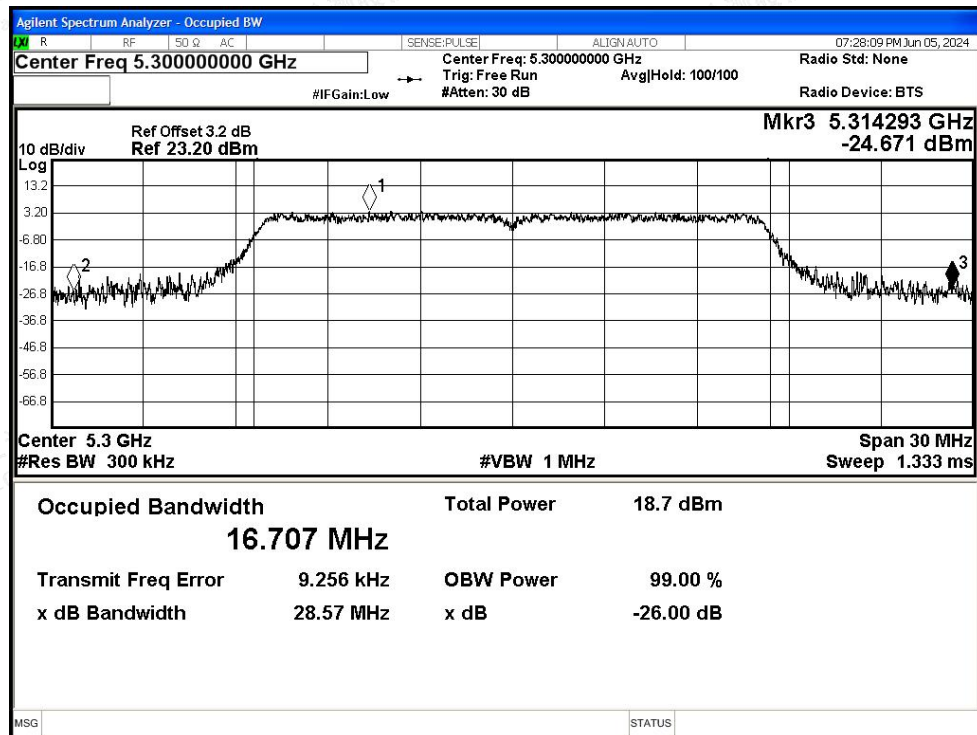


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1



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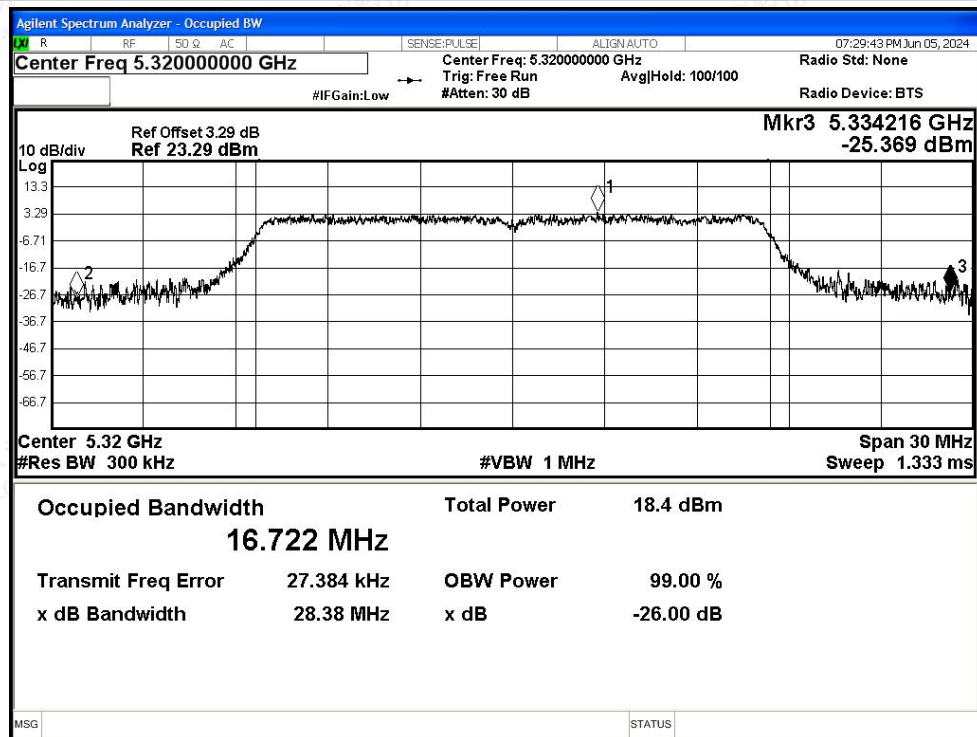
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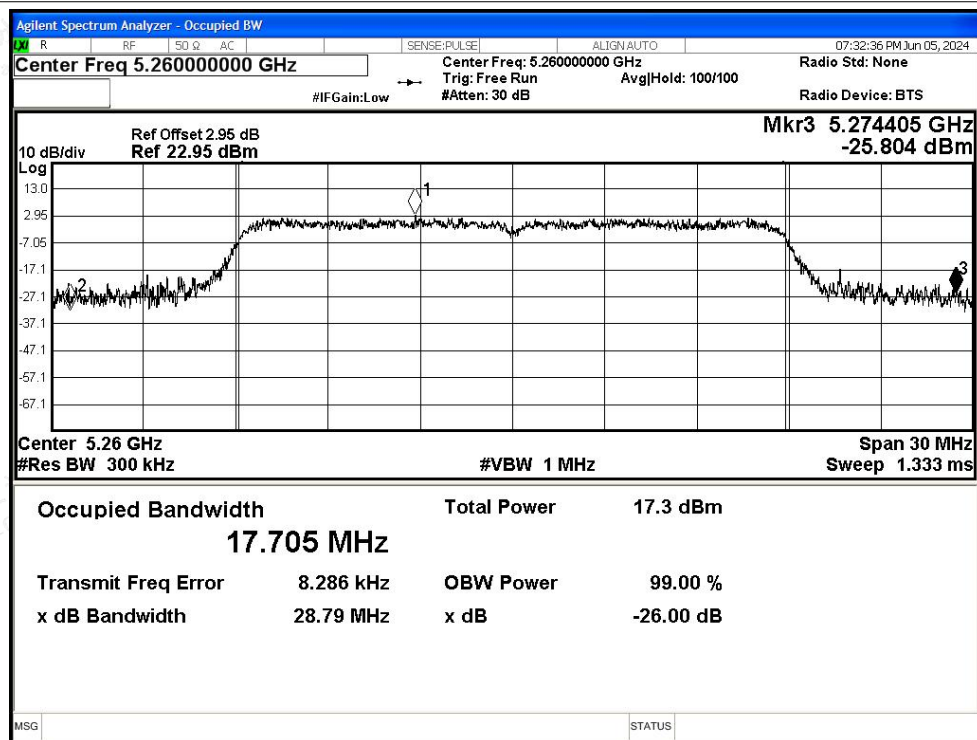
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-26dB Bandwidth NVNT a 5320MHz Ant1

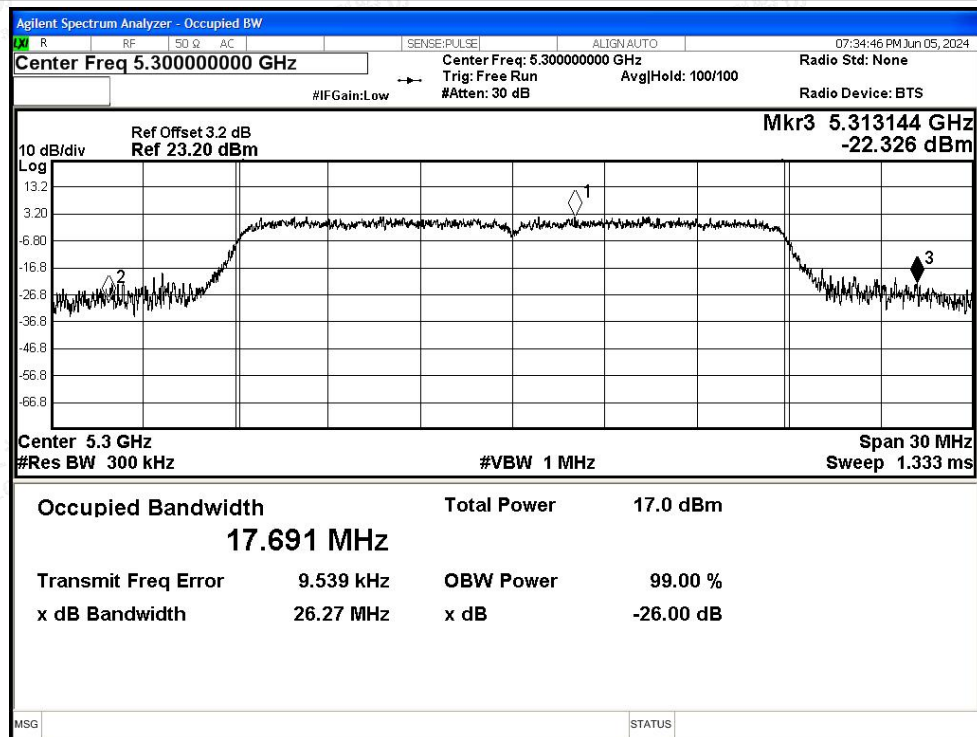


-26dB Bandwidth NVNT n20 5260MHz Ant1

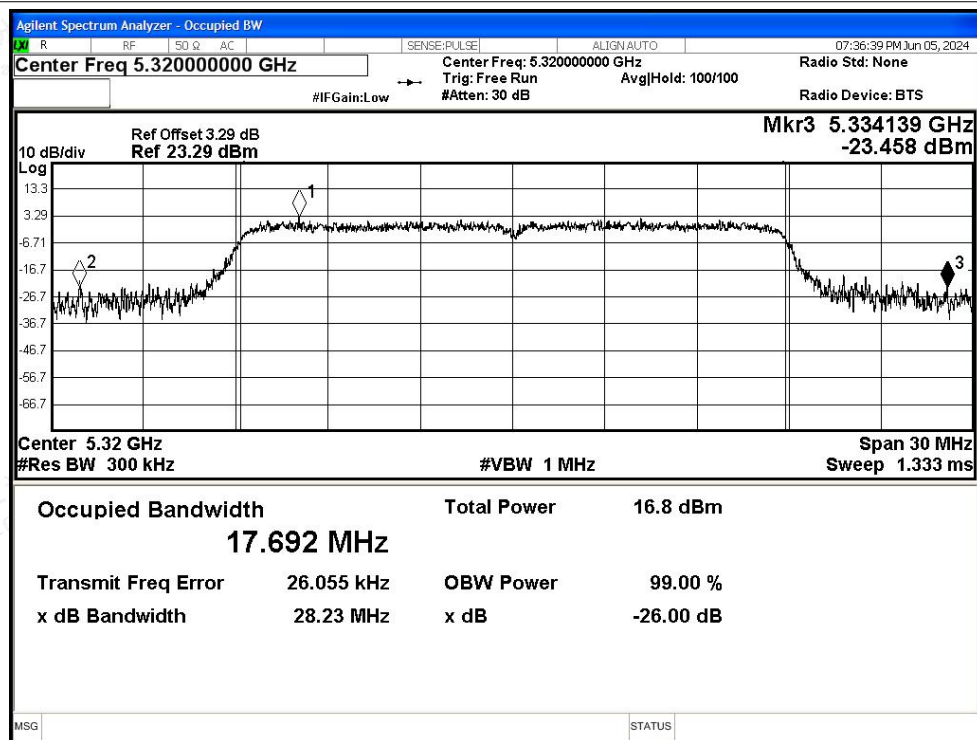




-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



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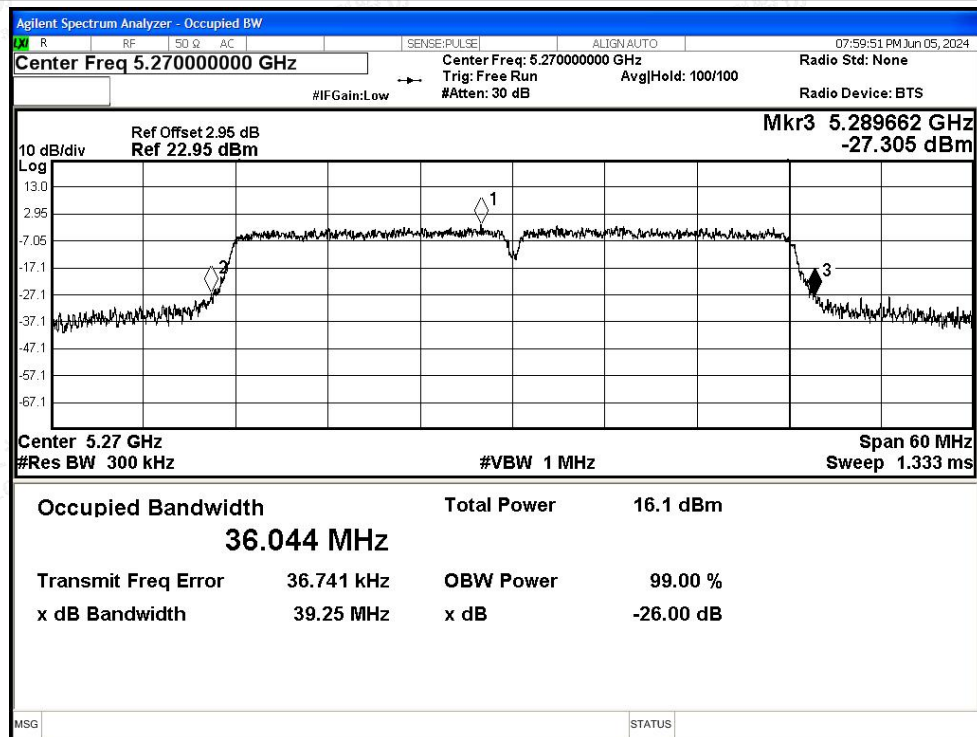
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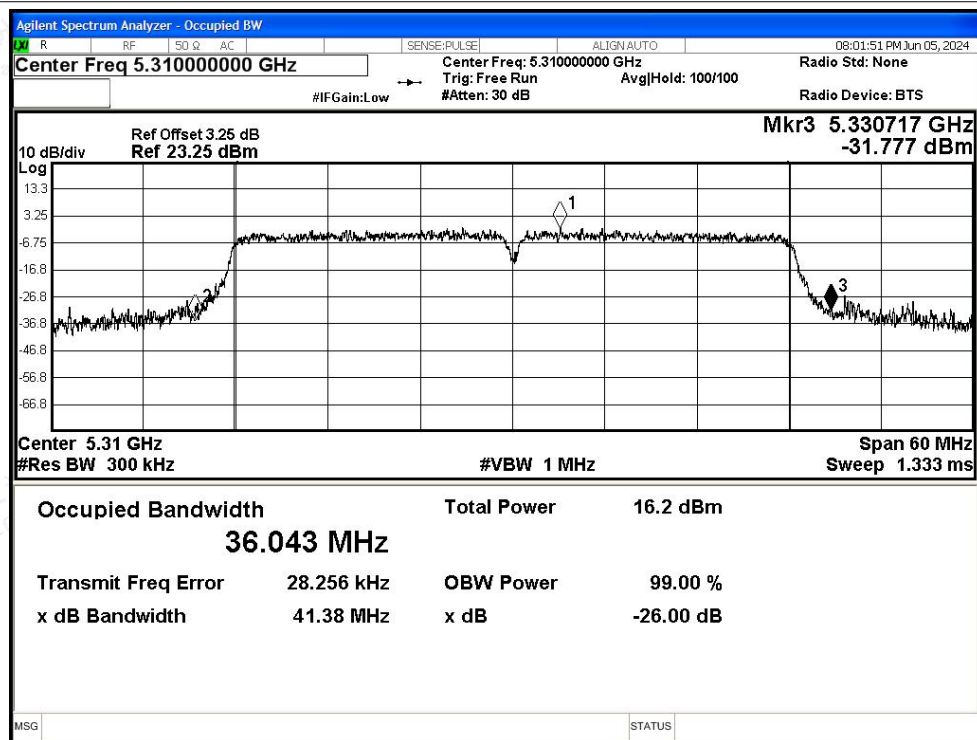
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-26dB Bandwidth NVNT n40 5270MHz Ant1

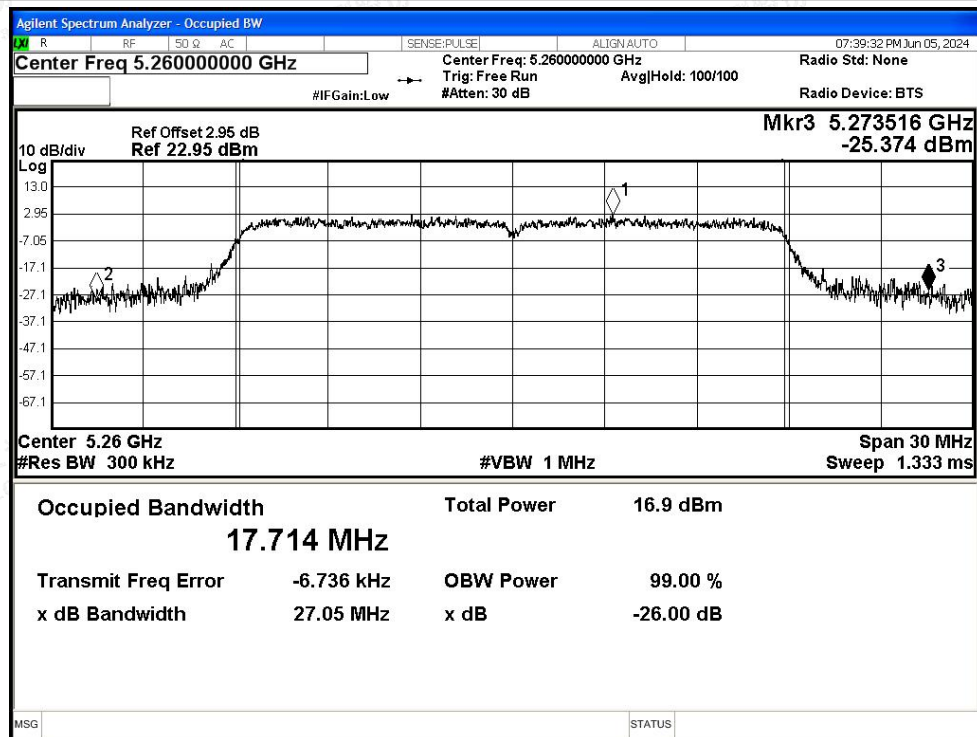


-26dB Bandwidth NVNT n40 5310MHz Ant1

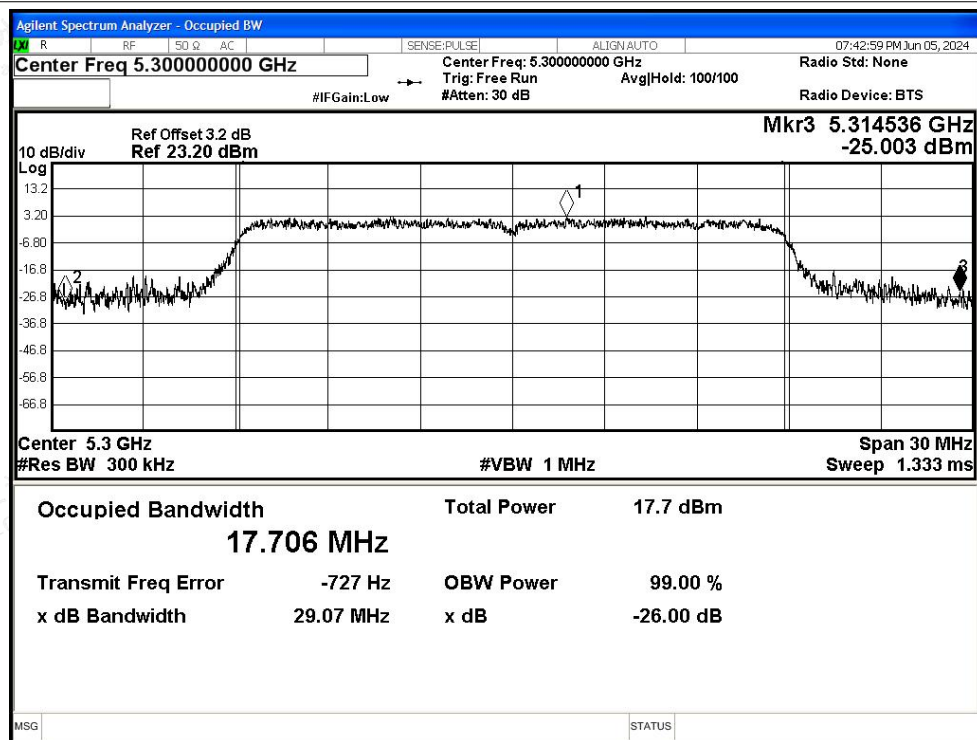




-26dB Bandwidth NVNT ac20 5260MHz Ant1

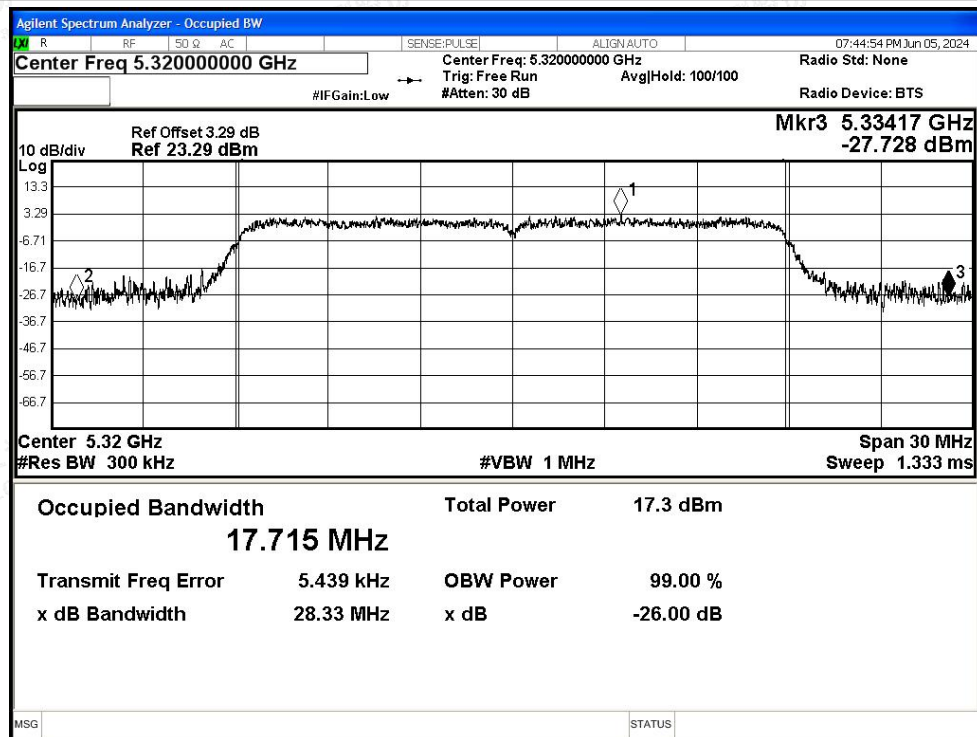


-26dB Bandwidth NVNT ac20 5300MHz Ant1

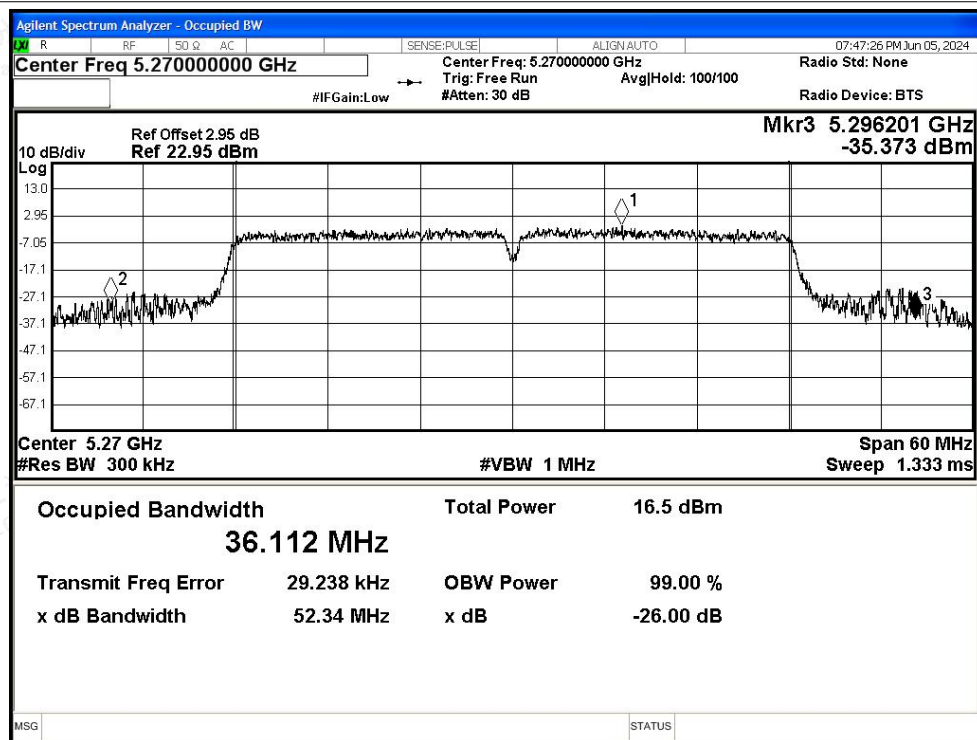




-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



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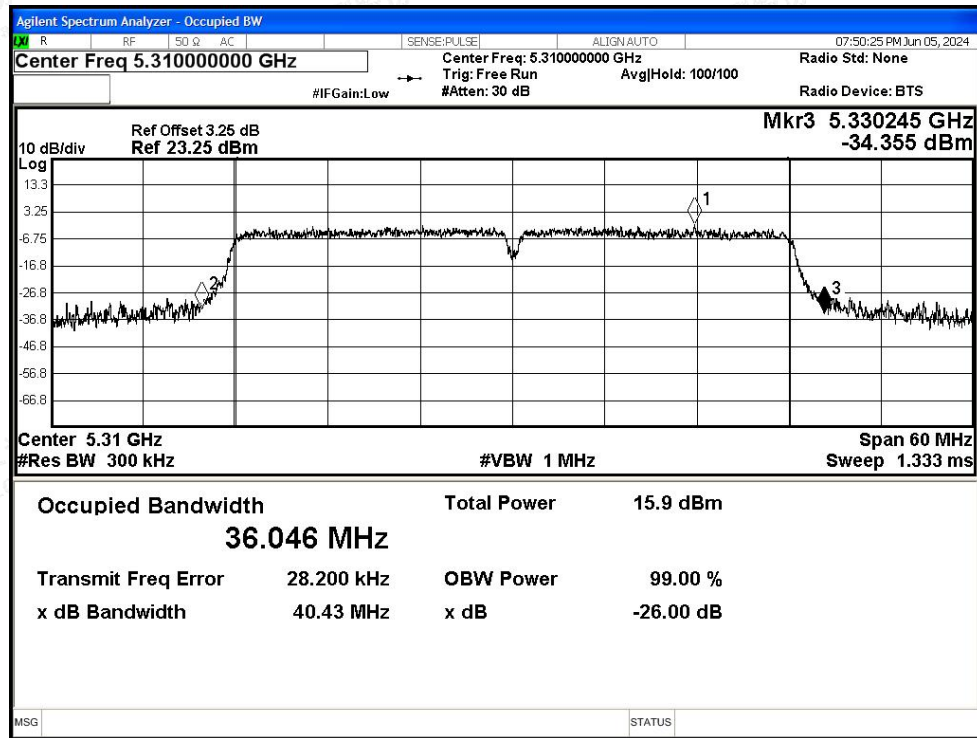
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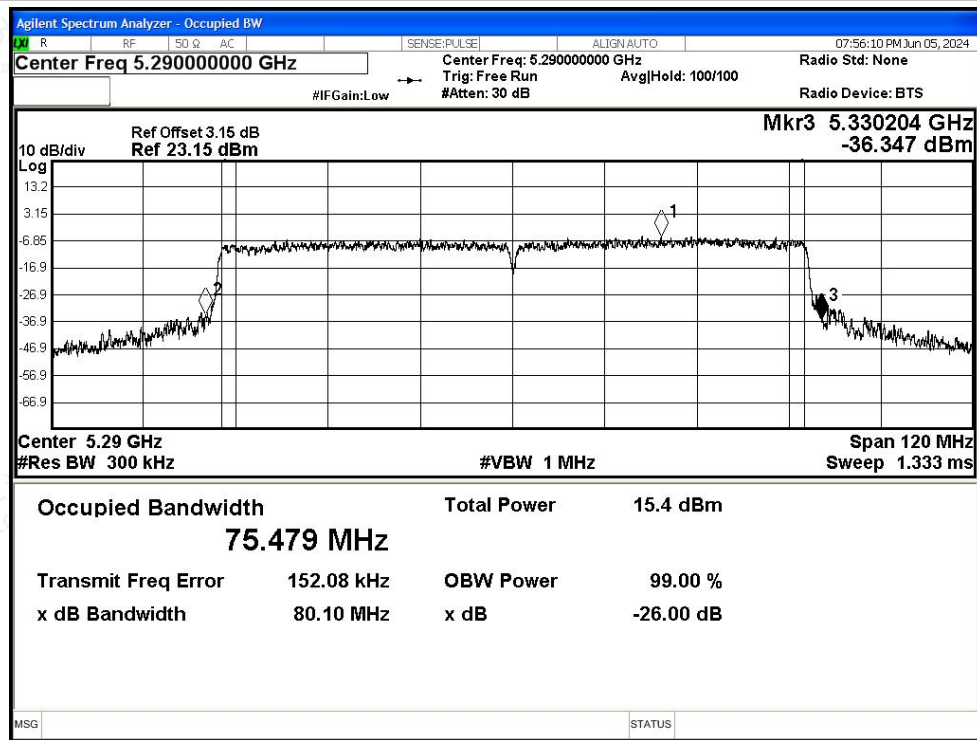
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-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1



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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.51	0.24	12.75	24	Pass
NVNT	a	5300	Ant1	12.81	0.24	13.05	24	Pass
NVNT	a	5320	Ant1	12.73	0.24	12.97	24	Pass
NVNT	n20	5260	Ant1	11.56	0.28	11.84	24	Pass
NVNT	n20	5300	Ant1	11.27	0.28	11.55	24	Pass
NVNT	n20	5320	Ant1	11.13	0.28	11.41	24	Pass
NVNT	n40	5270	Ant1	10.26	0.23	10.49	24	Pass
NVNT	n40	5310	Ant1	10.41	0.24	10.65	24	Pass
NVNT	ac20	5260	Ant1	11.18	0.28	11.46	24	Pass
NVNT	ac20	5300	Ant1	11.51	0.28	11.79	24	Pass
NVNT	ac20	5320	Ant1	11.68	0.28	11.96	24	Pass
NVNT	ac40	5270	Ant1	10.27	0.23	10.5	24	Pass
NVNT	ac40	5310	Ant1	10.44	0.23	10.67	24	Pass
NVNT	ac80	5290	Ant1	9.44	0.47	9.91	24	Pass





E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	1.89	0.24	2.13	11	Pass
NVNT	a	5300	Ant1	2.2	0.24	2.44	11	Pass
NVNT	a	5320	Ant1	2.19	0.24	2.43	11	Pass
NVNT	n20	5260	Ant1	0.66	0.28	0.94	11	Pass
NVNT	n20	5300	Ant1	0.45	0.28	0.73	11	Pass
NVNT	n20	5320	Ant1	0.28	0.28	0.56	11	Pass
NVNT	n40	5270	Ant1	-2.85	0.23	-2.62	11	Pass
NVNT	n40	5310	Ant1	-3.22	0.24	-2.98	11	Pass
NVNT	ac20	5260	Ant1	0.2	0.28	0.48	11	Pass
NVNT	ac20	5300	Ant1	1.06	0.28	1.34	11	Pass
NVNT	ac20	5320	Ant1	1	0.28	1.28	11	Pass
NVNT	ac40	5270	Ant1	-3	0.23	-2.77	11	Pass
NVNT	ac40	5310	Ant1	-3.02	0.23	-2.79	11	Pass
NVNT	ac80	5290	Ant1	-6.97	0.47	-6.5	11	Pass



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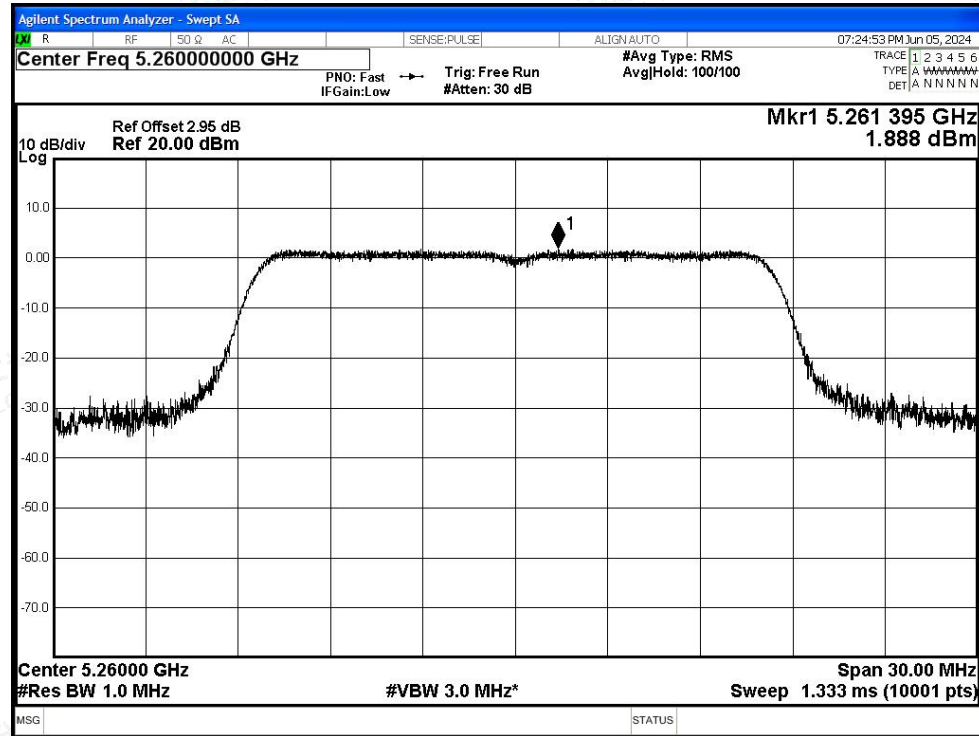
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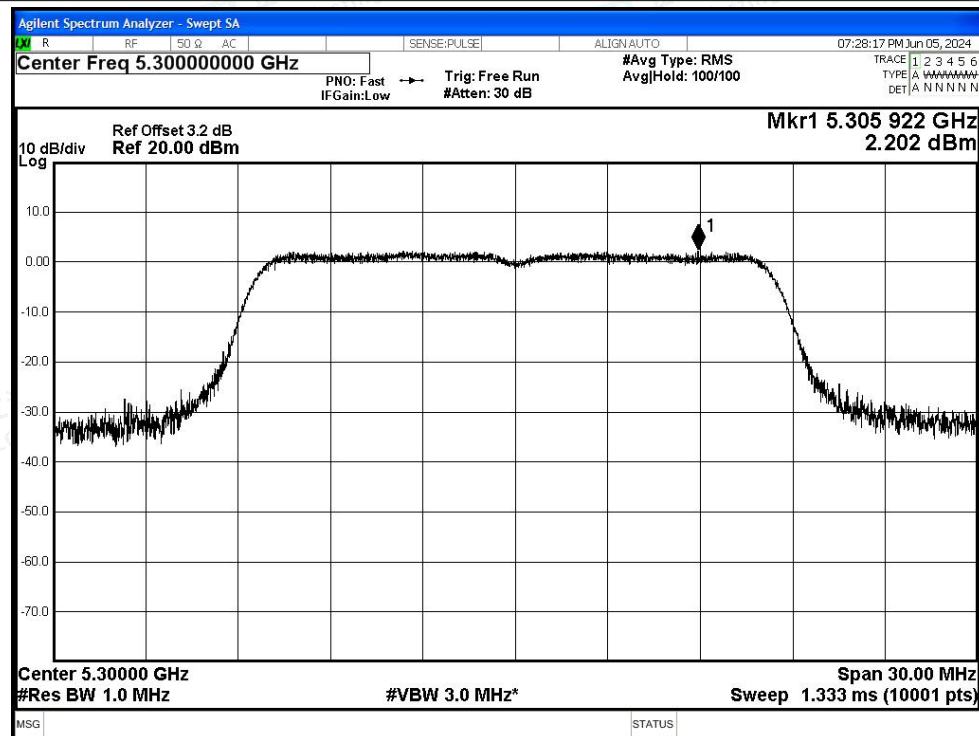


Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



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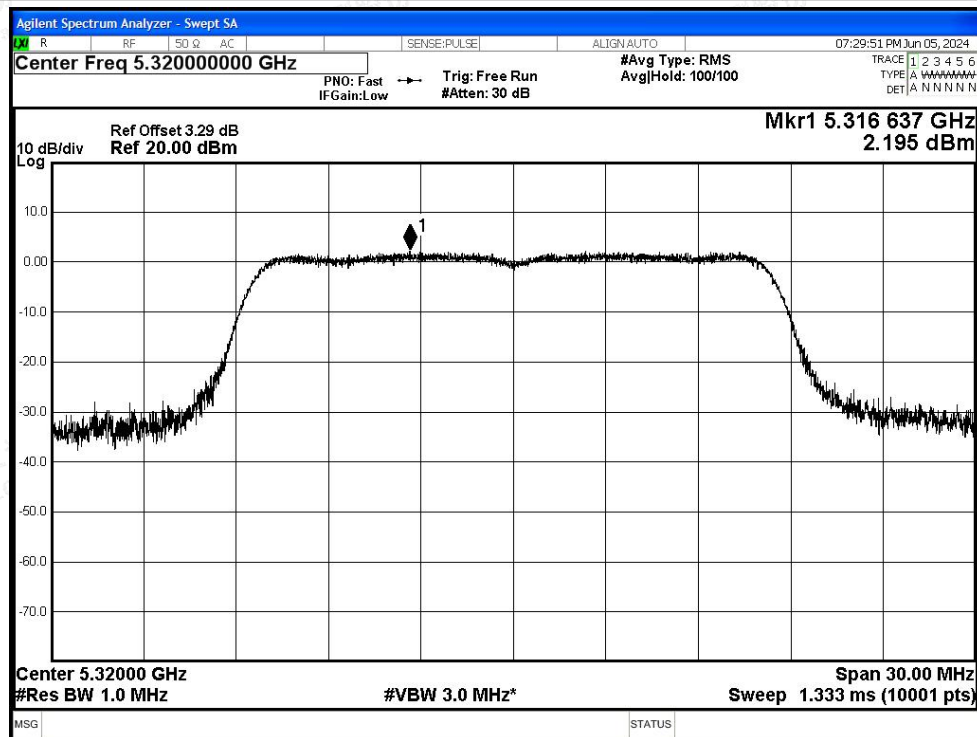
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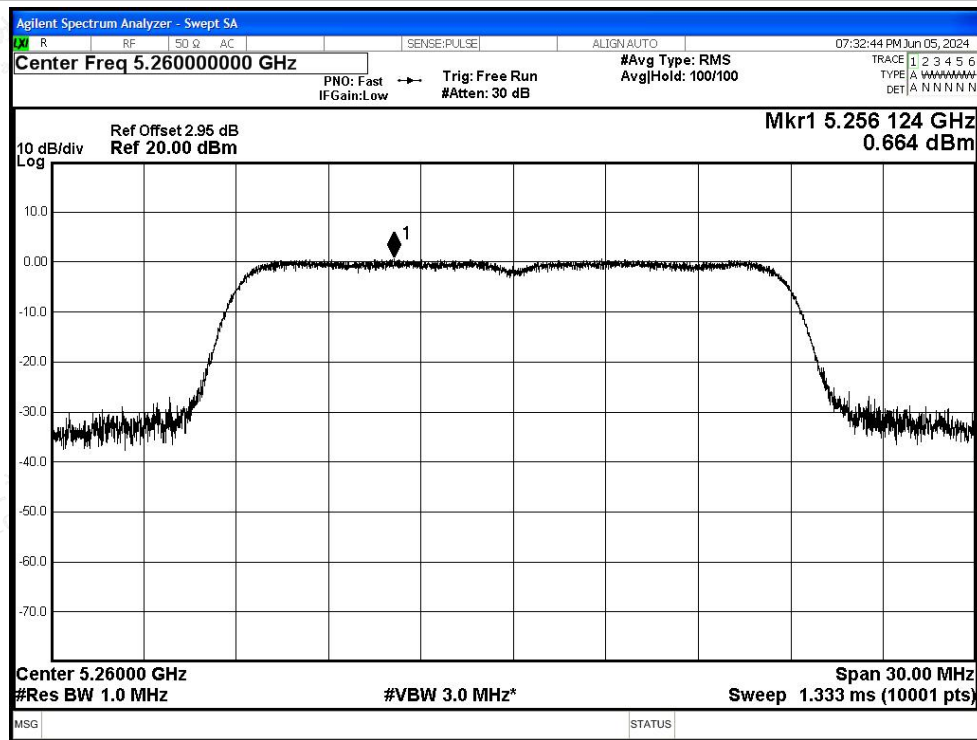
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PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1

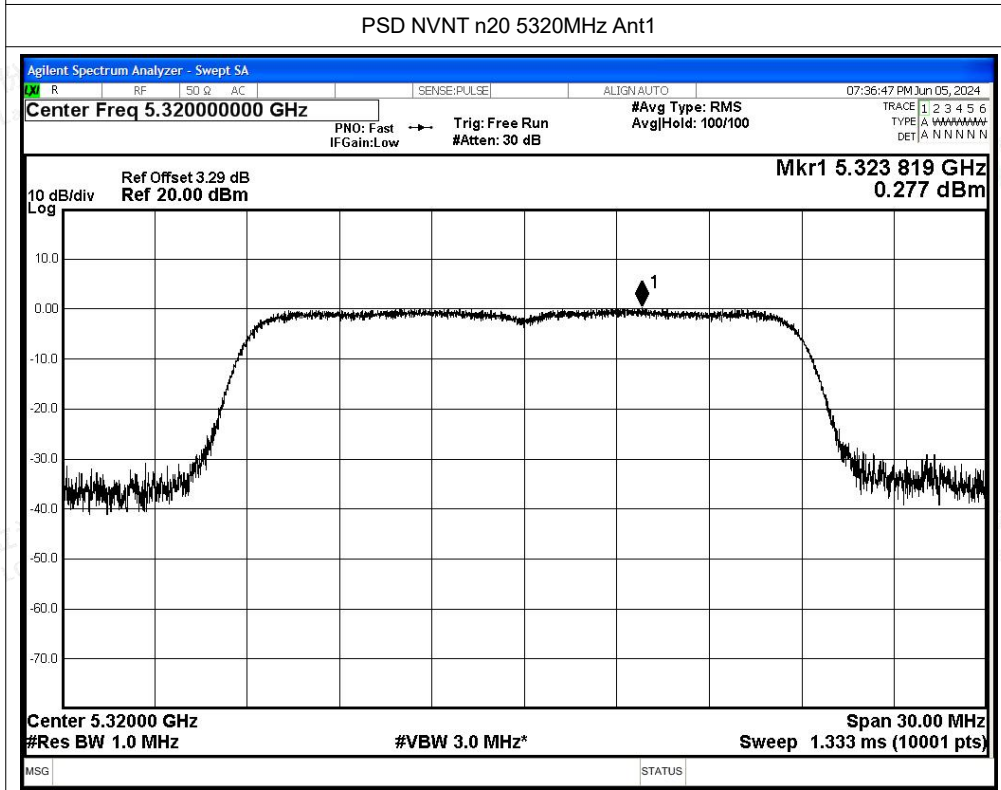
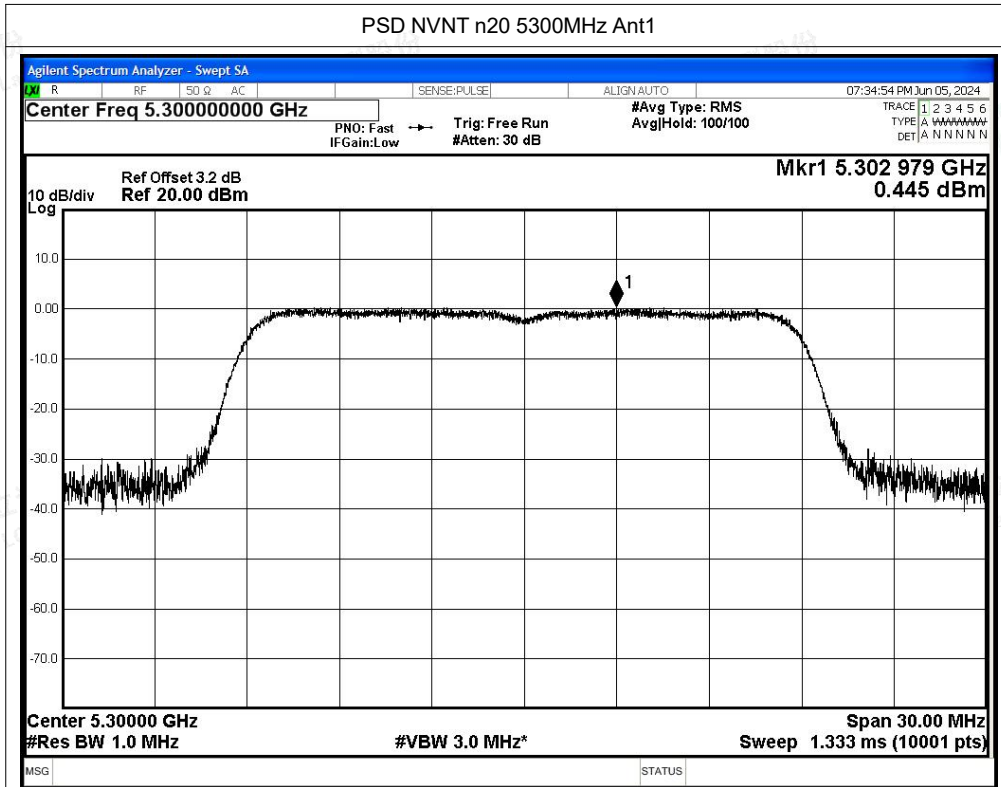


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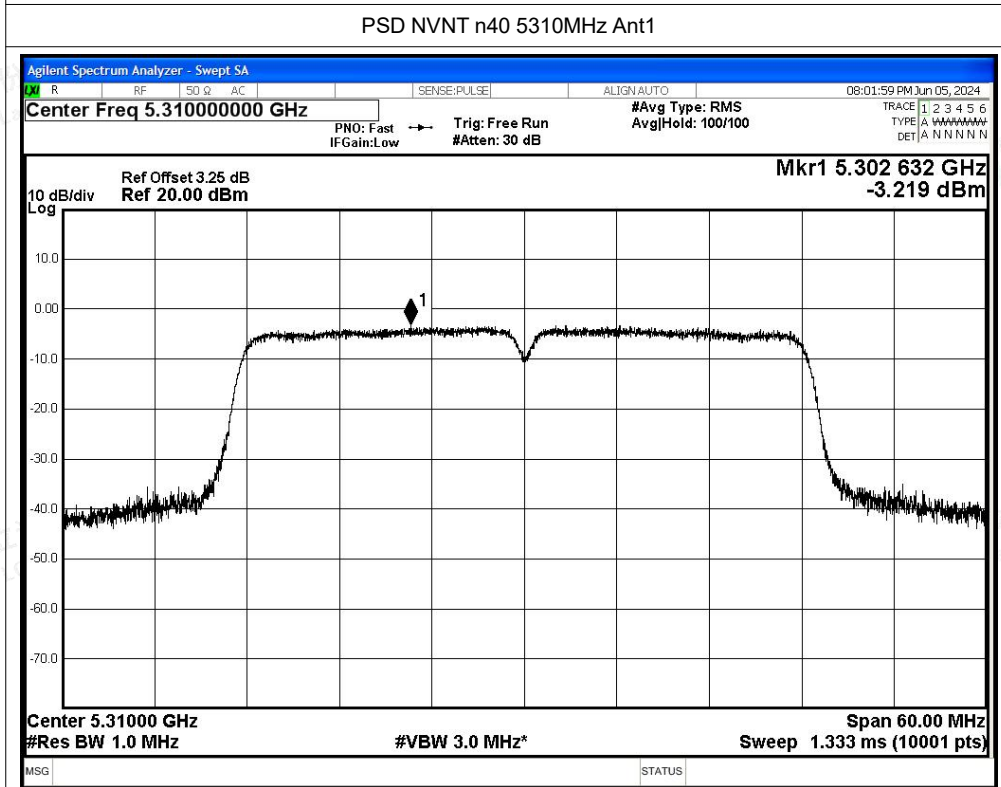
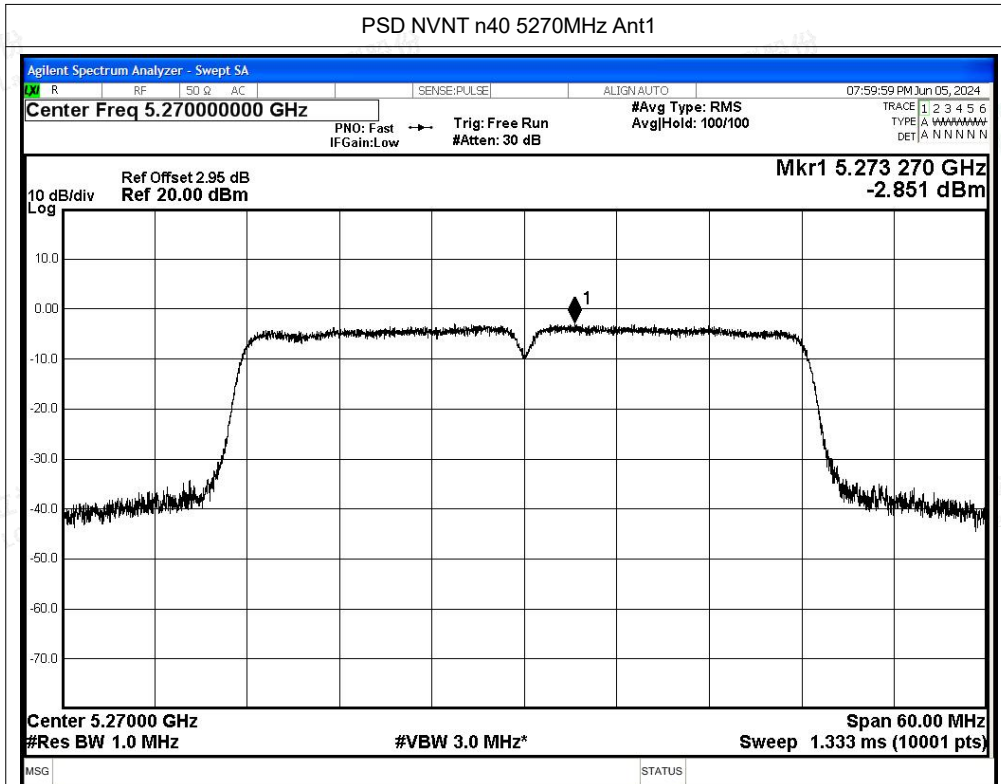


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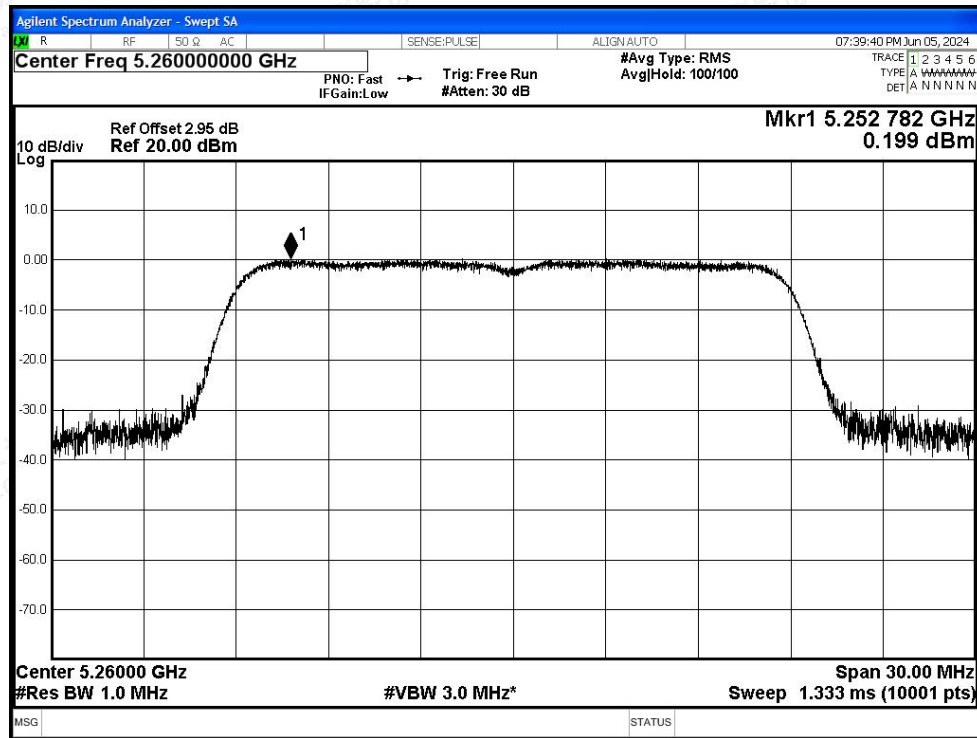
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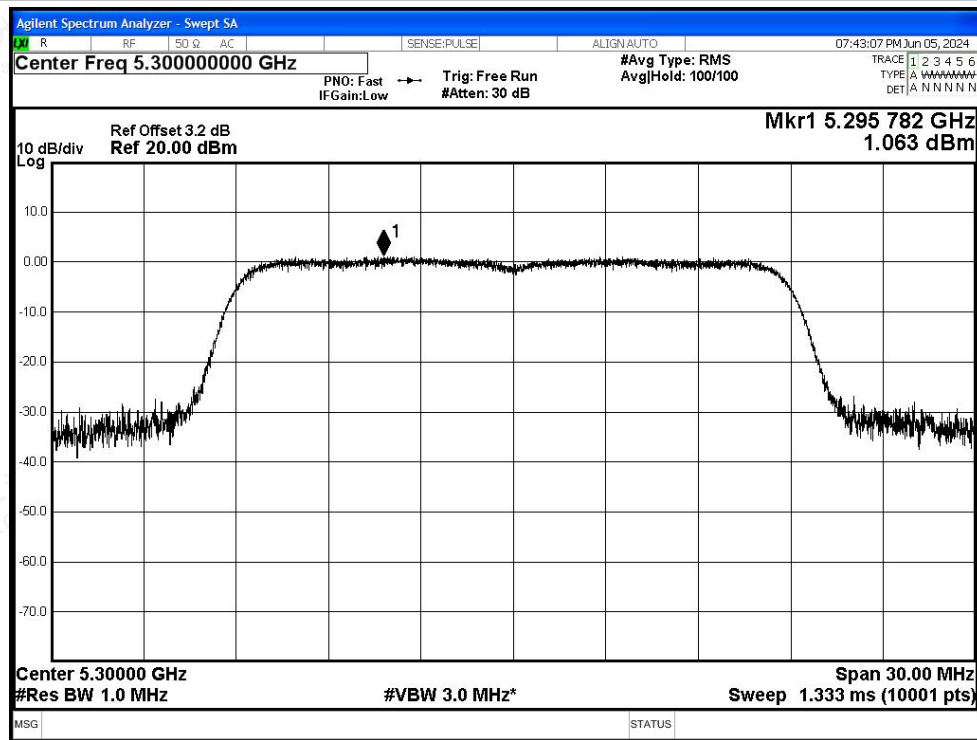




PSD NVNT ac20 5260MHz Ant1



PSD NVNT ac20 5300MHz Ant1



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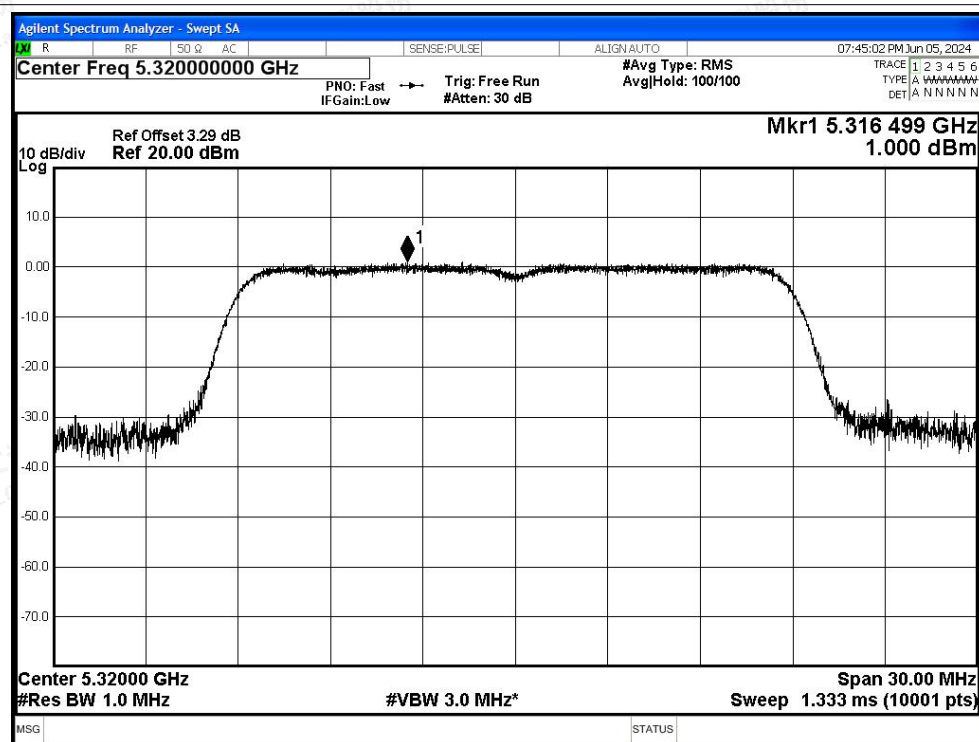
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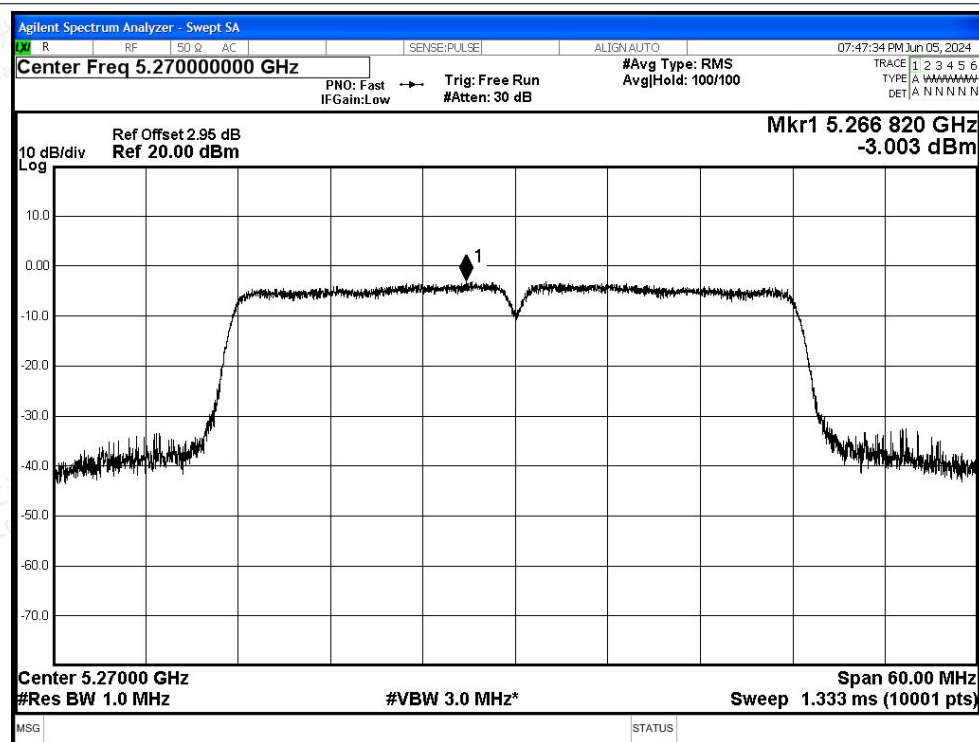
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PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1



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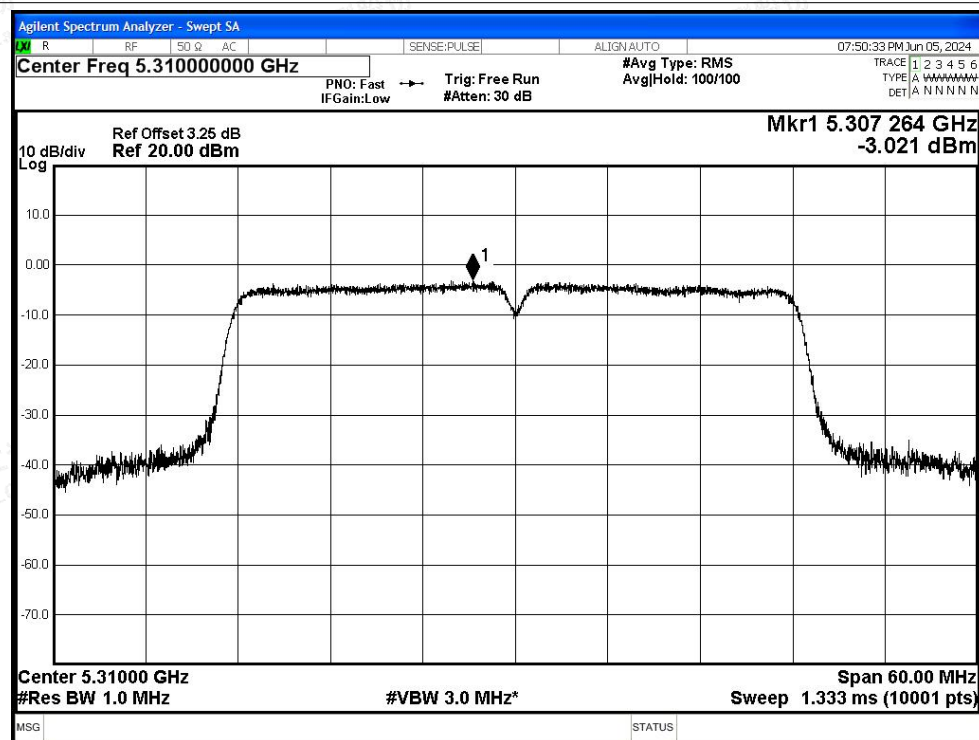
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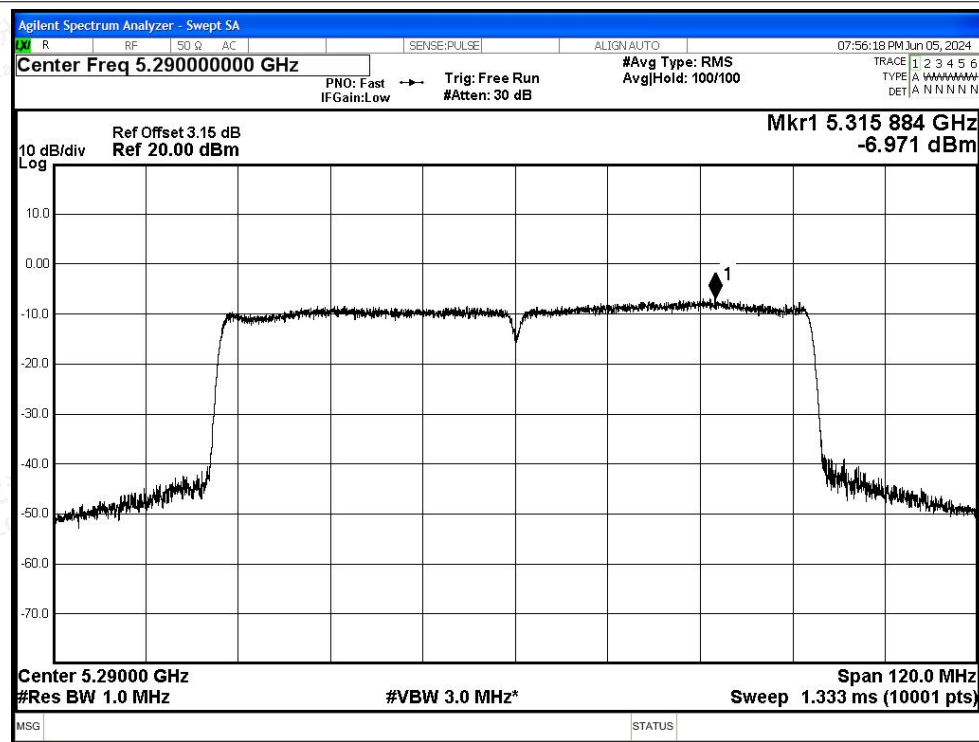
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PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac80 5290MHz Ant1





E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-51.07	3.49	-	47.65	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-59.4	3.49	0.24	39.56	Average	54	Pass
NVNT	a	5260	Ant1	4773	-45.73	3.49	-	52.99	Peak	68.2	Pass
NVNT	a	5260	Ant1	4787.82	-54.85	3.49	0.24	44.11	Average	54	Pass
NVNT	a	5260	Ant1	5150	-48.52	3.49	-	50.20	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-56.49	3.49	0.24	42.47	Average	54	Pass
NVNT	a	5320	Ant1	5350	-39.58	3.49	-	59.14	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-54.21	3.49	0.24	44.75	Average	54	Pass
NVNT	a	5320	Ant1	5350.8	-38.47	3.49	-	60.25	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-49.57	3.49	-	49.15	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-57.75	3.49	0.24	41.21	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-50.64	3.49	-	48.08	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-59.17	3.49	0.28	39.83	Average	54	Pass
NVNT	n20	5260	Ant1	5096.7	-46.39	3.49	-	52.33	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4787.04	-55.08	3.49	0.28	43.92	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-47.49	3.49	-	51.23	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-56.09	3.49	0.28	42.91	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-40.63	3.49	-	58.09	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-55.03	3.49	0.28	43.97	Average	54	Pass
NVNT	n20	5320	Ant1	5351.6	-54.94	3.49	0.28	44.06	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-50.28	3.49	-	48.44	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-57.98	3.49	0.28	41.02	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-50.41	3.49	-	48.31	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-58.97	3.49	0.23	39.98	Average	54	Pass
NVNT	n40	5270	Ant1	4806.18	-43.49	3.49	-	55.23	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4806.18	-52.62	3.49	0.23	46.33	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-48.85	3.49	-	49.87	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-57.4	3.49	0.23	41.55	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-40.63	3.49	-	58.09	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-54.02	3.49	0.24	44.94	Average	54	Pass
NVNT	n40	5310	Ant1	5350.2	-34.92	3.49	-	63.80	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350.8	-53.01	3.49	0.24	45.95	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-51.35	3.49	-	47.37	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-58.07	3.49	0.24	40.89	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-50.96	3.49	-	47.76	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-59.55	3.49	0.28	39.45	Average	54	Pass
NVNT	ac20	5260	Ant1	5111.52	-46.26	3.49	-	52.46	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4773	-55.55	3.49	0.28	43.45	Average	54	Pass



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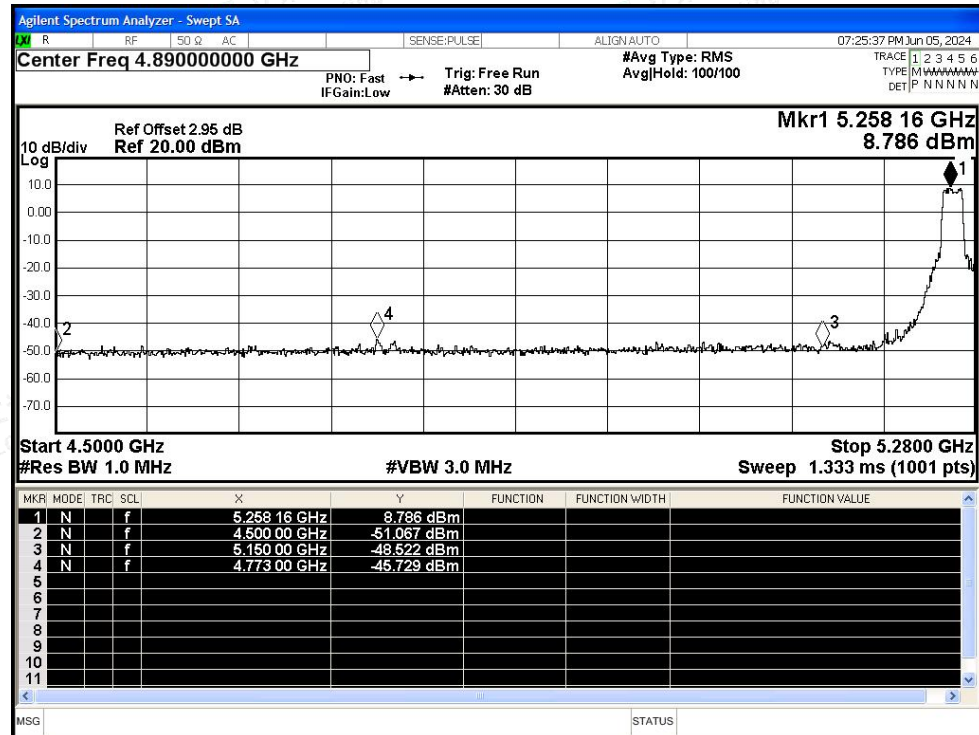
NVNT	ac20	5260	Ant1	5150	-49.52	3.49	-	49.20	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-56.95	3.49	0.28	42.05	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-38.05	3.49	-	60.67	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-52.71	3.49	0.28	46.29	Average	54	Pass
NVNT	ac20	5320	Ant1	5350.2	-36.37	3.49	-	62.35	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5351	-51.86	3.49	0.28	47.14	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-50.22	3.49	-	48.50	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-58.08	3.49	0.28	40.92	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-50.71	3.49	-	48.01	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-59.43	3.49	0.53	39.82	Average	54	Pass
NVNT	ac40	5270	Ant1	4806.18	-44.85	3.49	-	53.87	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4806.99	-53.19	3.49	0.53	46.06	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-50.14	3.49	-	48.58	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-57.1	3.49	0.53	42.15	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-47.45	3.49	-	51.27	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-55.74	3.49	0.23	43.21	Average	54	Pass
NVNT	ac40	5310	Ant1	5350.8	-44.1	3.49	-	54.62	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5351.8	-55.69	3.49	0.23	43.26	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-50.93	3.49	-	47.79	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-58.09	3.49	0.23	40.86	Average	54	Pass
NVNT	ac80	5290	Ant1	4500	-51.14	3.49	-	47.58	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	4500	-58.95	3.49	0.47	40.24	Average	54	Pass
NVNT	ac80	5290	Ant1	5068.11	-46.5	3.49	-	52.22	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5146.41	-56.1	3.49	0.47	43.09	Average	54	Pass
NVNT	ac80	5290	Ant1	5150	-48.27	3.49	-	50.45	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5150	-56.98	3.49	0.47	42.21	Average	54	Pass
NVNT	ac80	5290	Ant1	5350	-45.67	3.49	-	53.05	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-54.46	3.49	0.47	44.73	Average	54	Pass
NVNT	ac80	5290	Ant1	5357	-41.73	3.49	-	56.99	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5355.25	-54.21	3.49	0.47	44.98	Average	54	Pass
NVNT	ac80	5290	Ant1	5460	-50.9	3.49	-	47.82	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-58.27	3.49	0.47	40.92	Average	54	Pass



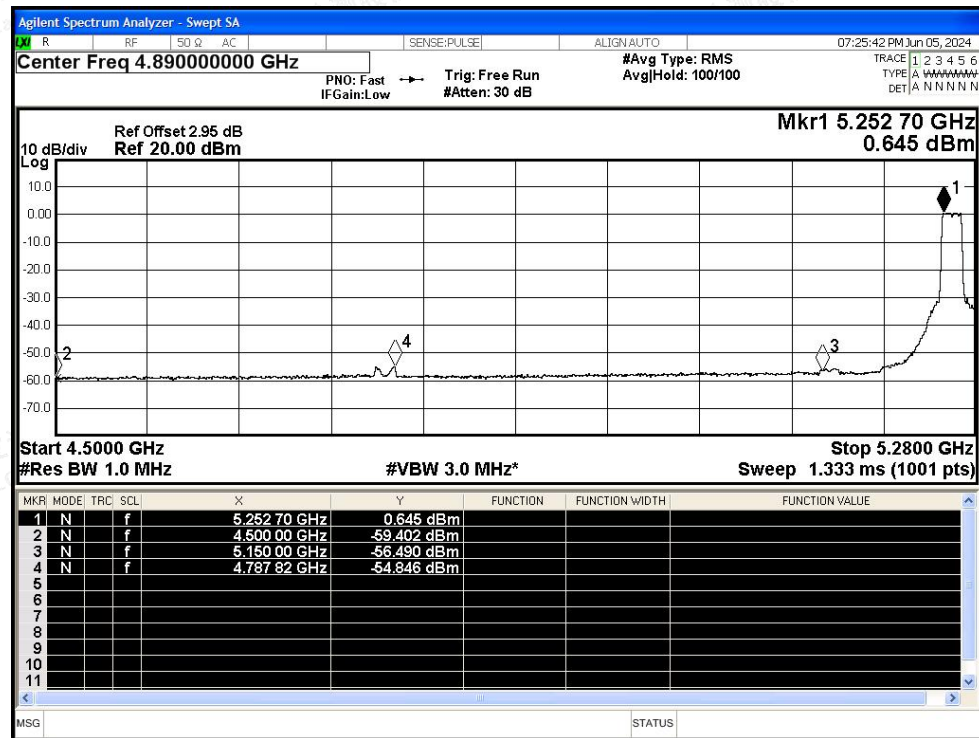


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

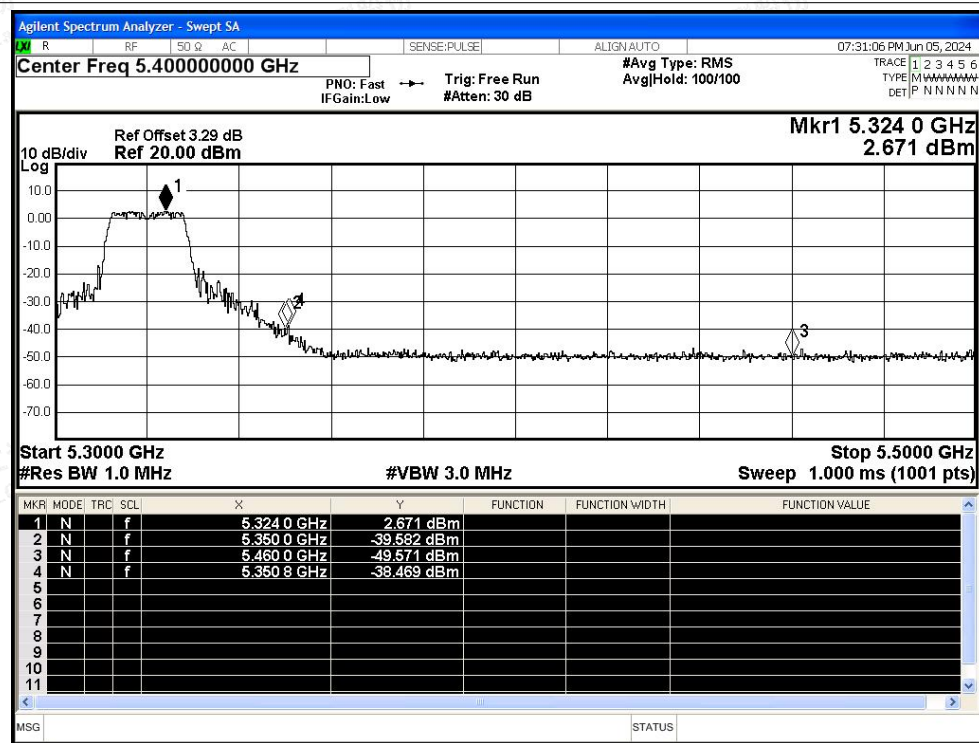
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

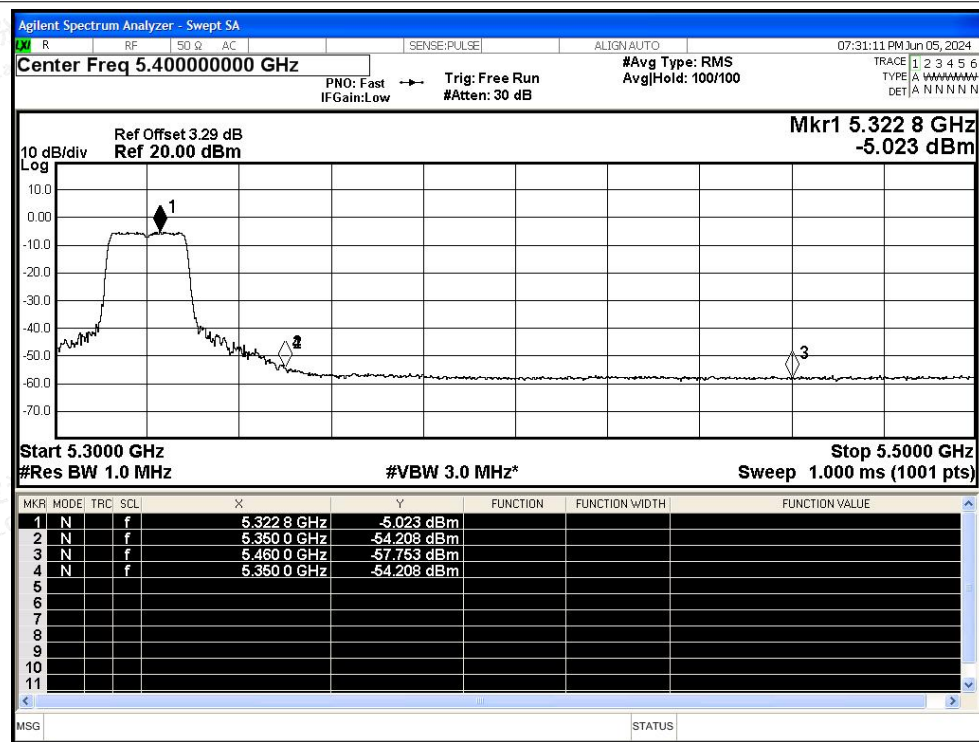
Scan code to check authenticity



Restrict Band NVNT a 5320MHz Ant1 Peak



Restrict Band NVNT a 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

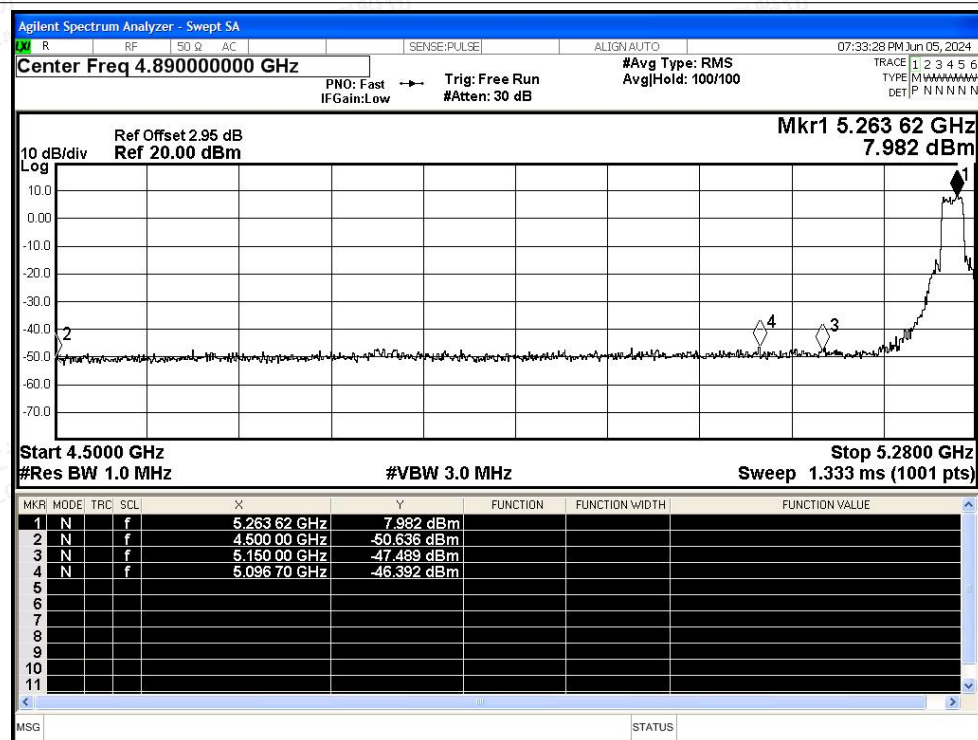
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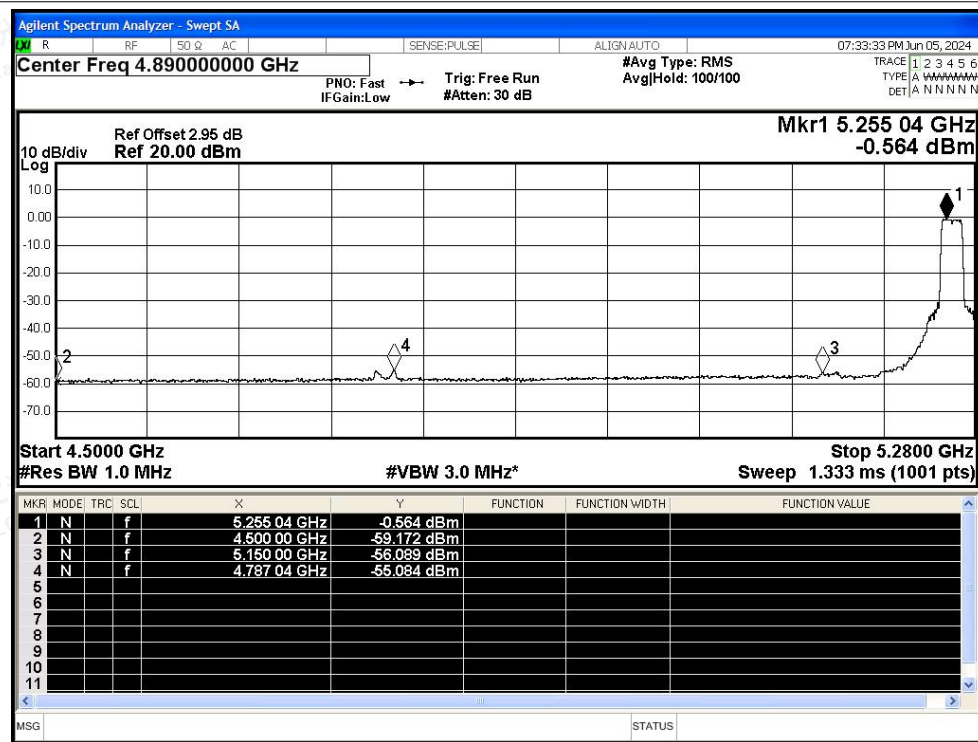
Scan code to check authenticity



Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

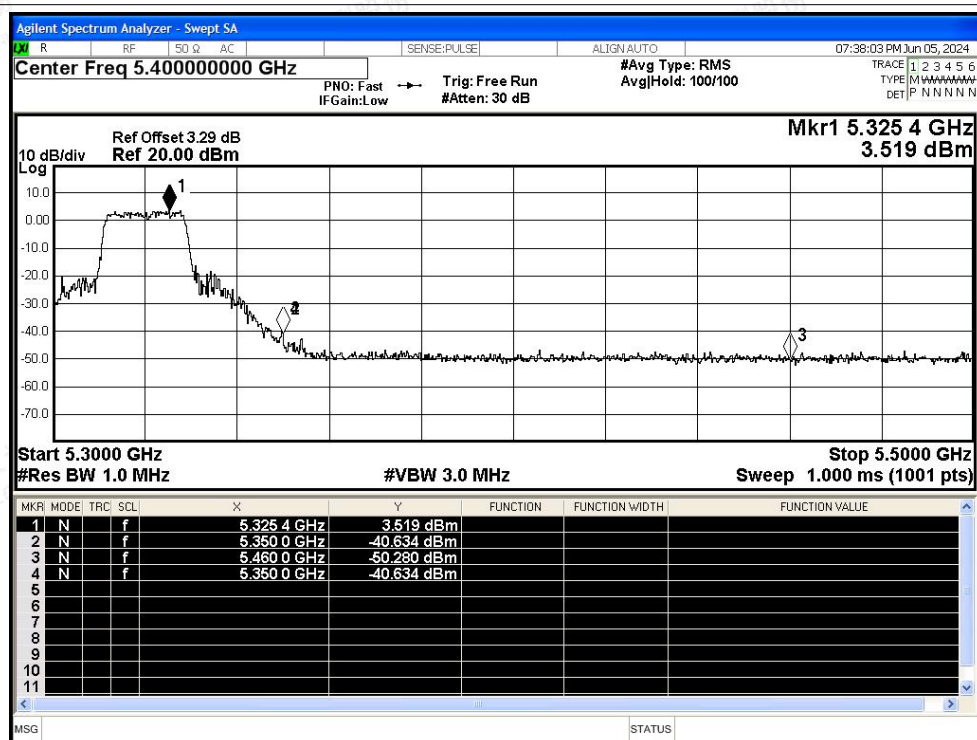
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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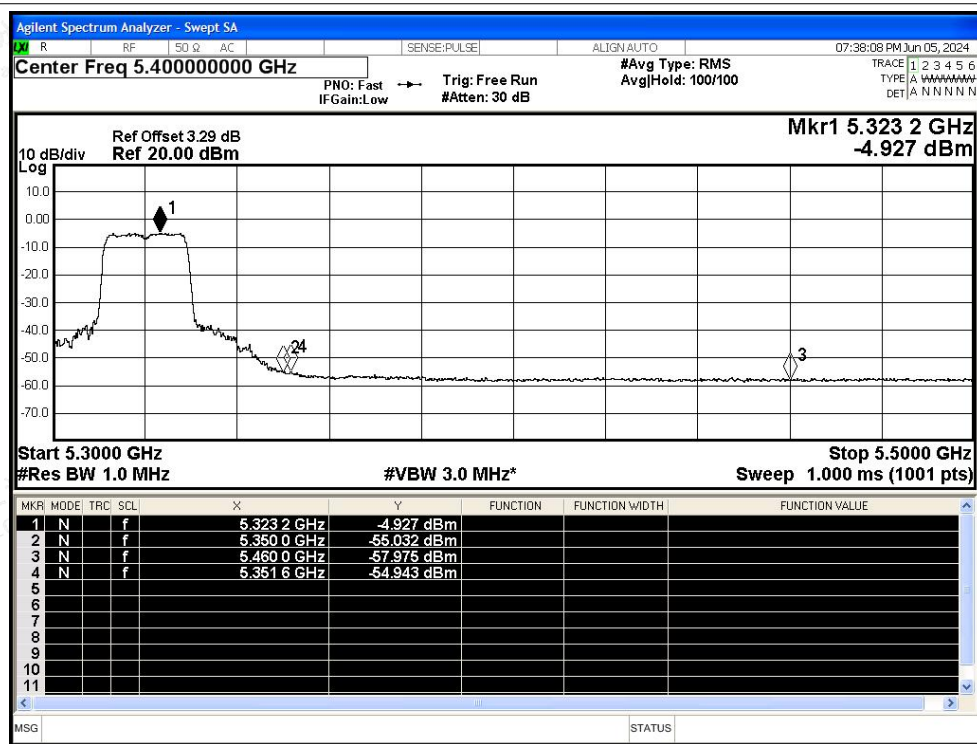
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Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

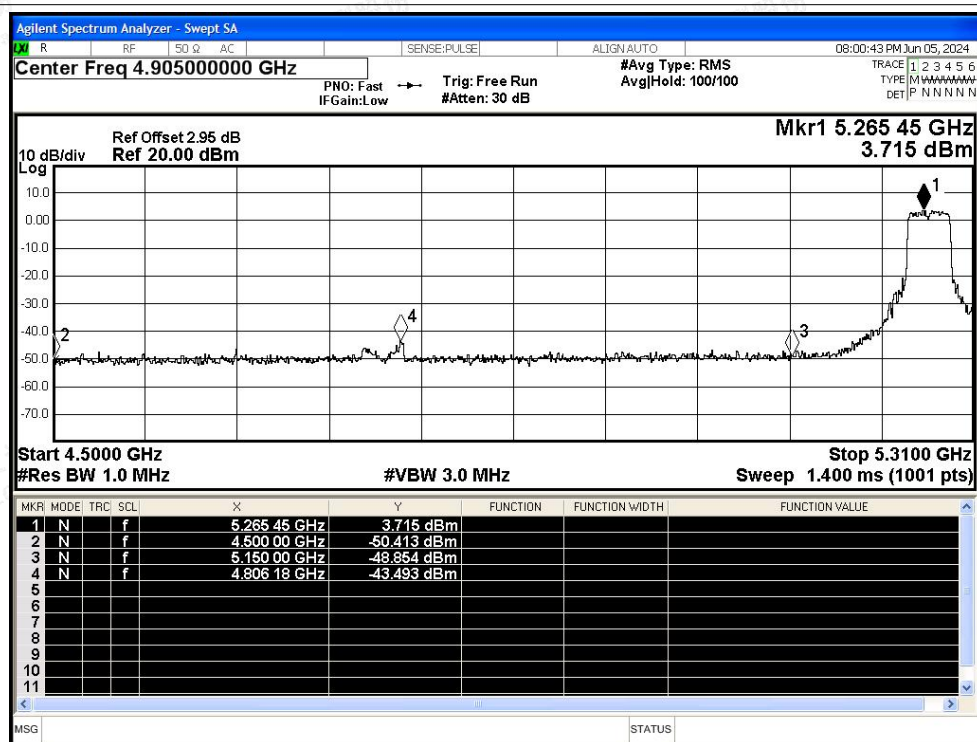
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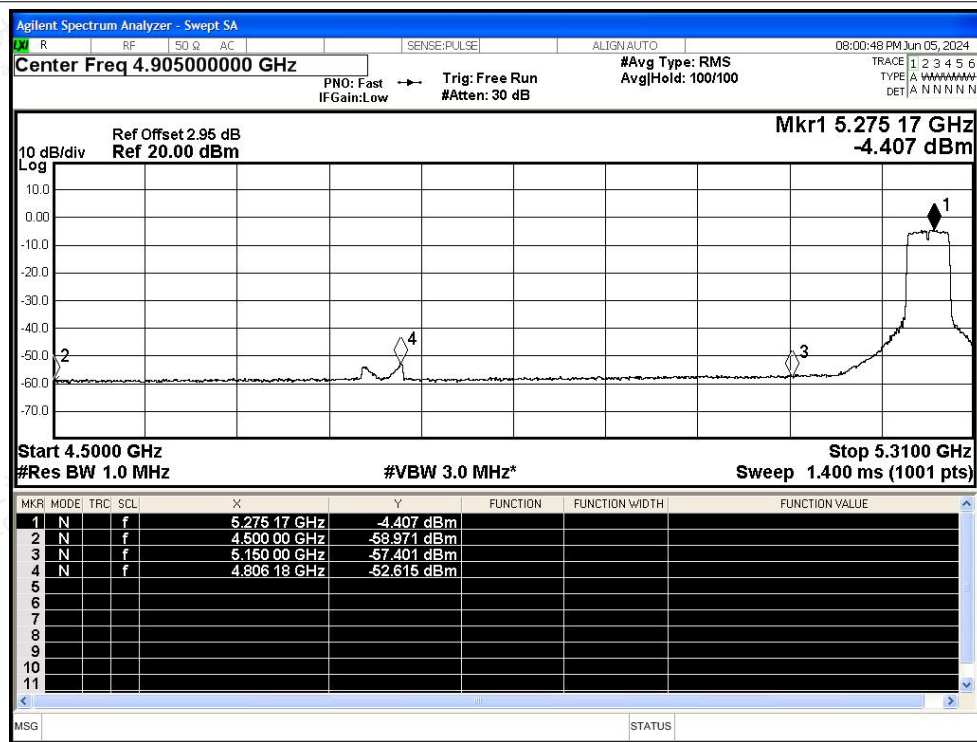
Scan code to check authenticity



Restrict Band NVNT n40 5270MHz Ant1 Peak



Restrict Band NVNT n40 5270MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

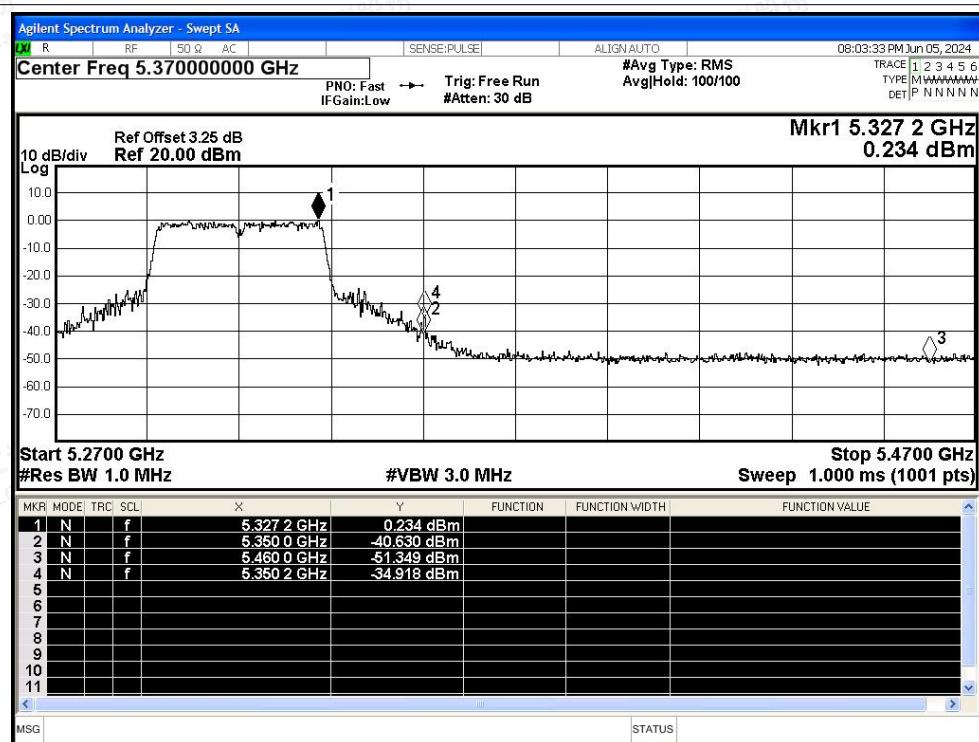
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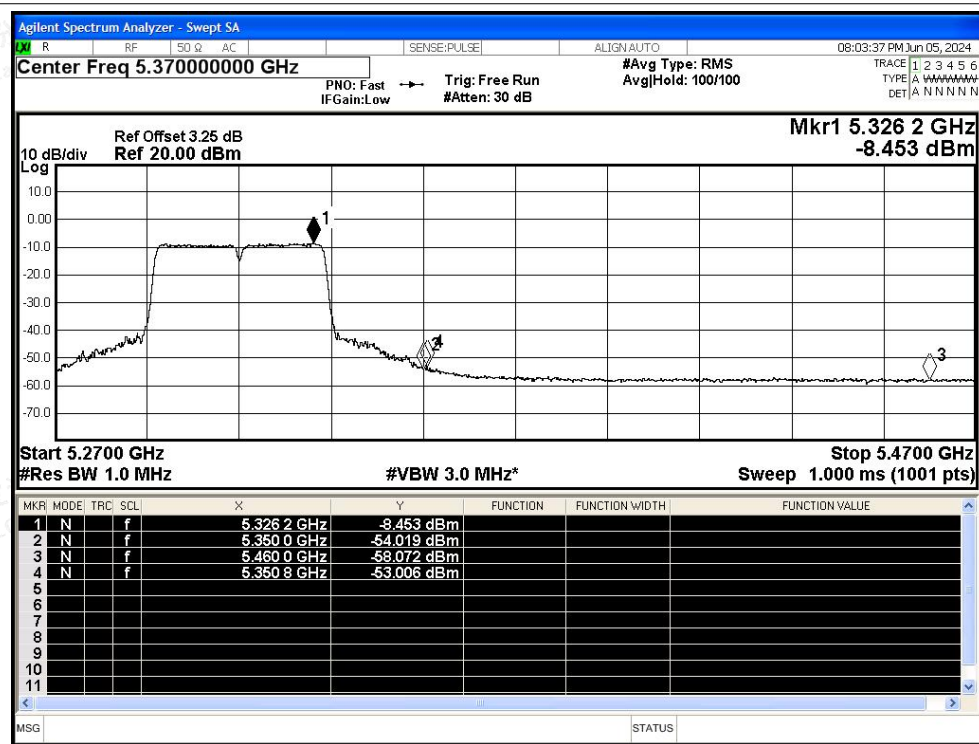
Scan code to check authenticity



Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

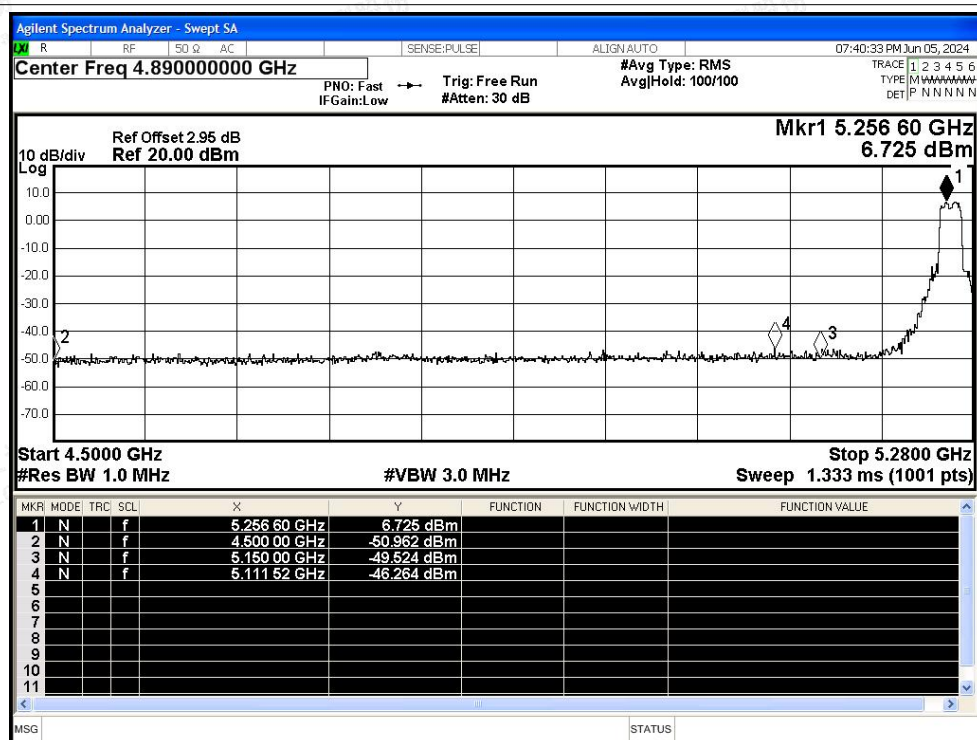
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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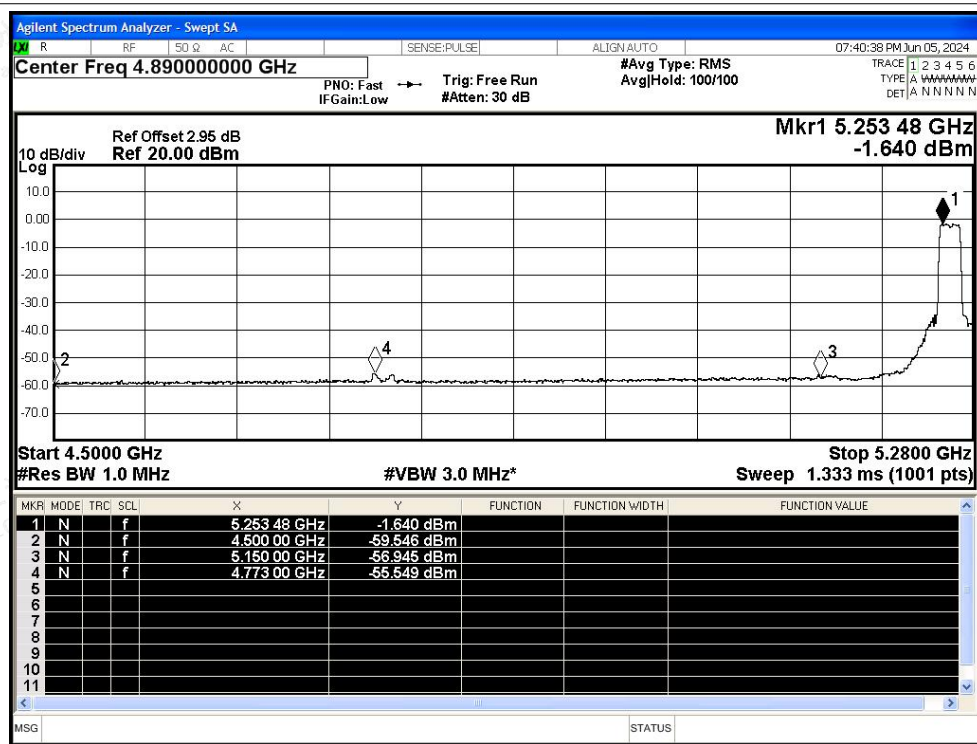
Scan code to check authenticity



Restrict Band NVNT ac20 5260MHz Ant1 Peak



Restrict Band NVNT ac20 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

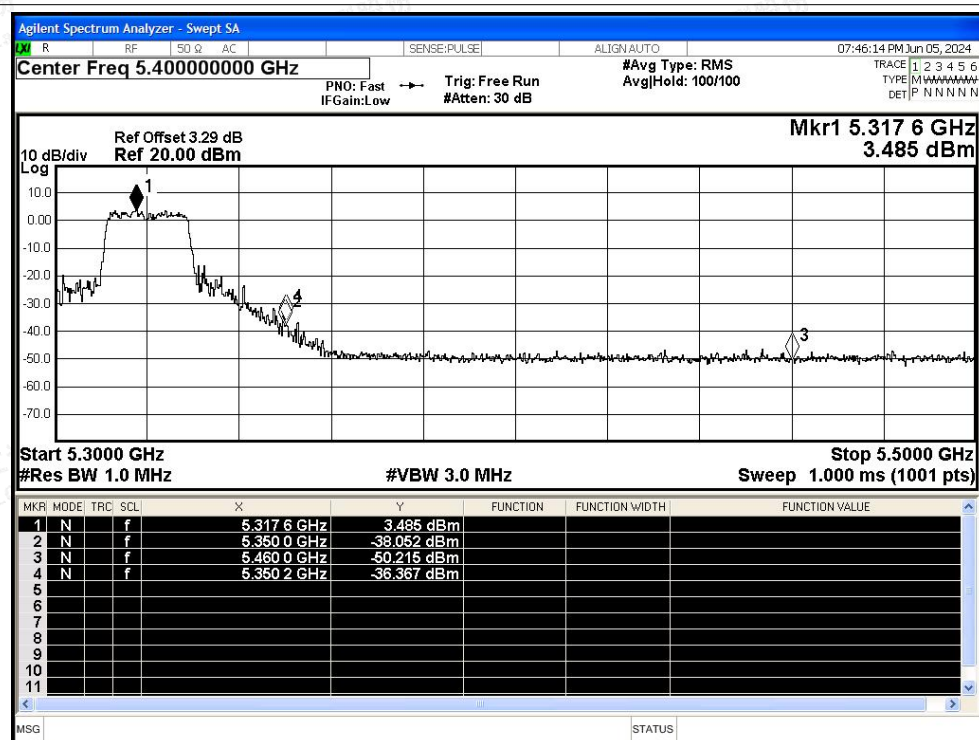
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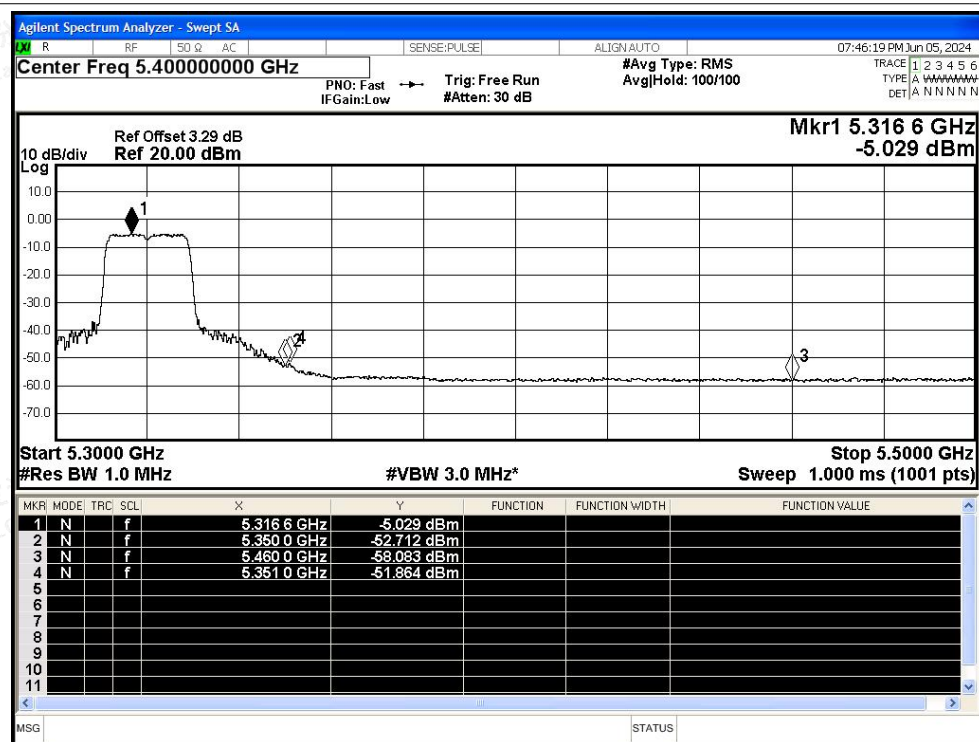
Scan code to check authenticity



Restrict Band NVNT ac20 5320MHz Ant1 Peak



Restrict Band NVNT ac20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

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